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69054 RECHES PATI	7590 11/12/201 E NTS	EXAMINER		
211 North Unio	on St.	SAINT CYR, JEAN D		
Suite 100 Alexandria, VA	. 22314		ART UNIT	PAPER NUMBER
			2425	
			NOTIFICATION DATE	DELIVERY MODE
			11/12/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/698,189	OZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	JEAN Duclos SAINT CYR	2425				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING THE MAILING THE METERS OF THE MAILING THE MAILING THE MAILING THE METERS OF THE METERS OF THE MAILING THE MAILING THE METERS OF THE METER	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>07 S</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) 1,3-9 and 11-27 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-9 and 11-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 30 October 2010 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/07/2010 has been entered.

Claim Rejections - 35 USC § 101

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 19 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 19 discloses a computer readable medium and that computer readable medium could be a signal or a carrier wave.

Response to Amendment

This action is in response to applicant's amendment filed on 09/07/2010. Claims 1, 3-9, 11-27 are still pending in the current application. This action is made NON-FINAL.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-9, 11-27 have been considered but are moot in view of the new ground(s) of rejection. Applicant argues that Gordon and Porter did not disclose receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition; providing the non-live media stream from a second path to the client; wherein the generating comprises fetching intra-coded frame from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames. For that reason, the examiner introduces new references as Dygert showing in fig.2 where the video pump is directly connected to a Raid Array representing a server or a buffer

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and DVD jukebox. The video is connected to RAID Array and DVD jukebox using two different paths.

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And Dygert et al disclose the purpose of video pump 12 is to retrieve MPEG audio/video streams from various storage devices, such as RAID array 14 and DVD jukebox, col.5, lines 43-45; col.10, lines 28-31; perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; start and stop addresses and start and stop commands are sent to RAID streaming logic, col.6, lines 50-51. This information proves that the system is capable of providing live content and non-linear content.

And Weaver et al show in see fig.1, prefetch unit and disclose Video pump 120 includes a prefetch unit 146 and a buffer 144. Video pump 120 reads content data from disks 114 asynchronously. To read content data, prefetch unit 146 requests the transmission of a particular portion of content data, and disks 114 respond by either sending the requested content data, col.15, lines 51-59; col.15, lines 65-67; fast forward the feed at different times, each would require a separate non-linear digital editor, col.2, lines 60-61; indicators of video access points, time stamps, col.7, line 53; with this information, it is clear that the system is capable of identifying I-frames from the video stream by prefetch data from the buffer. As a result, this action is made non-final.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 3-9, 11-21, 23-25, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dygert et al in view of Weaver et al, US No.6119154.

Re claim 1, Dygert et al disclose receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit (see fig.2 where the video pump is directly connected to a Raid Array representing a server or a buffer; The purpose of video pump 12 is to retrieve MPEG audio/video streams from various storage devices, such as RAID array 14 and DVD jukebox, col.5, lines 43-45; col.10, lines 28-31);

providing a live media stream from the first path to a client, in response to a request to provide the live media stream to the client (see fig.2, first path between video pump and Raid Array; Video pump responds to system commands from system control server 22 for the retrieval and distribution of isochronous data including both audio and video, col.5, lines 52-54);

retrieving media related information that comprises data structures that assist in constructing non-live media streams(see fig.2, video scene database; Video pump receives via the commands, the start and stop addresses of the data within a given file that is to be streamed through ATM network, col.6, lines 4-28);

online generating by the video pump, in response to a request to receive a trick play media stream, a non-live media stream, by utilizing the media related information (perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; start and stop addresses and start and stop commands are sent to RAID streaming logic, col.6, lines 50-51);

providing the non-live media stream from a second path to the client, wherein the second path comprises the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path (see fig.2 where video pump is coupled to a DVD Jukebox using a different path; col.6, lines 8-9).

But did not explicitly disclose wherein the generating comprises fetching intra-coded frame from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames.

However, Weaver et al disclose wherein the generating comprises fetching intracoded frame from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames(see fig.1, prefetch unit; col.15, lines 51-59; col.15, lines 65-67; fast forward the feed at different times, each would require a separate non-linear digital editor, col.2, lines 60-61; indicators of video access points, time stamps, col.7, line 53; prefix data is data that prepares the client to receive digital audio-visual data from the specified location in the digital audio-visual file, col.14, lines 8-11).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Weaver into the invention of Dygert for the purpose of reducing delay in displaying non-linear video.

Re claim 3, Dygert et al disclose wherein the second path comprises a media server and a video pump being coupled to each other by a bandwidth limited link (ATM network is able to establish end-to-end connections with guaranteed bandwidth availability, col.5, lines 60-67, col.6, lines 1-3; real-time pump is capable of maintaining an aggregate data flow bandwidth of 120 Mbps, col.7, lines 14-16).

Re claim 4, Dygert et al disclose wherein the media related information comprises information indicative of a location of a stored media stream and wherein the generating of a non-live media stream further comprises a determination of which frames of the stored media stream to fetch from the first path(see fig.2, video scene database; Video

pump receives via the commands, the start and stop addresses of the data within a given file that is to be streamed through ATM network, col.6, lines 4-28; RAID streaming logic fetches data from RAID array. This data is placed in DRAM buffer 35 where it is read by real-time pump, col.6, lines 57-59).

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Re claim 5, Dygert et al disclose wherein the non-live media stream is MPEG compliant (The data received from real-time pump 34 is in the form of MPEG transport stream packets, col.7, lines 20-21).

Re claim 6, Dygert et al disclose wherein the non-live media stream is a trick mode media stream(perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9).

Re claim 7, Dygert et al disclose further comprising a step of providing a live media stream from the first path to a client, in response to a request to provide a slightly delayed media stream to the client(see fig.2, first path between video pump and Raid Array; Video pump responds to system commands from system control server 22 for the retrieval and distribution of isochronous data including both audio and video, col.5, lines 52-54; deliver each bit from the encoder to the decoder with a constant delay, col.1, lines 36-38).

Re claim 8, Dygert et al disclose further comprising converting live media streams to non-live media streams(perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; by performing these actions, the live stream is transformed to non-live stream).

As claim 9, the claimed "a system for providing media streams, the system comprising: a first path comprising a video pump coupled to a data acquisition unit; wherein the first path is utilized for receiving live media streams and for providing a live media stream to a client, in response to a request to provide the live media stream to

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the client...; wherein the generating comprises fetching intra-coded frame from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames..." is composed as the same structural elements as previously discussed with respect to the rejection of claims 1.

Re claim 11, Dygert et al disclose wherein the second path comprises a media server and a video pump being coupled to each other by a bandwidth limited link (ATM network is able to establish end-to-end connections with guaranteed bandwidth availability, col.5, lines 60-67, col.6, lines 1-3; real-time pump is capable of maintaining an aggregate data flow bandwidth of 120 Mbps, col.7, lines 14-16).

Re claim 12, Dygert et al disclose wherein the media related information comprises portions of the non-live media stream (see fig.2, video scene database; Video pump receives via the commands, the start and stop addresses of the data within a given file that is to be streamed through ATM network, col.6, lines 4-28; RAID streaming logic fetches data from RAID array. This data is placed in DRAM buffer 35 where it is read by real-time pump, col.6, lines 57-59).

Re claim 13, Dygert et al disclose wherein the non-live media stream is MPEG compliant (The data received from real-time pump 34 is in the form of MPEG transport stream packets, col.7, lines 20-21).

Re claim 14, Dygert et al disclose wherein the non-live media stream is a trick mode media stream(perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9).

Re claim 15, Dygert et al disclose further comprising a step of providing a live media stream from the first path to a client, in response to a request to provide a slightly delayed media stream to the client(see fig.2, first path between video pump and Raid

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Array; Video pump responds to system commands from system control server 22 for the retrieval and distribution of isochronous data including both audio and video, col.5, lines 52-54; deliver each bit from the encoder to the decoder with a constant delay, col.1, lines 36-38).

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As claim 16, the claimed" a system for providing media streams, the system comprising: an acquisition unit coupled to a media source; a media storage and management entity; a video pump interface, coupled to the output of the acquisition unit via a first path...; a video pump that is operable to determine which data to fetch from the media storage and management entity and when to transmit it according to MPEG timing..." is composed as the same structural elements as previously discussed with respect to the rejection of claims 1.

Re claim 17, Dygert et al disclose wherein the video pump is operable to fetch selected portions of the data stored at the media storage and management entity (RAID streaming logic fetches data from RAID array. This data is placed in DRAM buffer 35 where it is read by real-time pump, col.6, lines 57-59).

Re claim 18, Dygert et al disclose wherein the video pump is further operable to transmit retrieved data over a network to the end-user (see fig.2).

As, claimed 19, the claimed "a computer readable medium having code embodied therein for causing an electronic device to perform the steps of: receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit...; wherein the generating comprises fetching intra-coded frame from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames..." is composed as the same structural elements as previously discussed with respect to the rejection of claims 1.

Re claim 20, Dygert et al disclose wherein the generating comprises generating at least the portion of the non-live media stream by converting the live media stream to provide at least the portion of the non-live media stream (perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; by performing these actions, the live stream is transformed to non-live stream).

Re claim 21, Dygert et al disclose wherein the receiving further comprises receiving a live media stream from a first media source, and wherein the retrieving comprises retrieving media related information from a second media source that is different from the first media source(see fig.2).

Re claim 23, is met as previously discussed with respect to the rejection of claim 8.

Re claim 24, Dygert et al disclose wherein the second path is further operable to generate at least the portion of the non-live media stream by converting the live media stream to provide at least the portion of the non-live media stream (see fig.2; perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; by performing these actions, the live stream is transformed to non-live stream).

Re claim 25, Dygert et al disclose wherein the first path is operable to receive a live media stream from a first media source, and wherein the second path is further operable to retrieve media related information from a second media source that is different from the first media source(see fig.2, video scene database; Video pump receives via the commands, the start and stop addresses of the data within a given file that is to be streamed through ATM network, col.6, lines 4-28; RAID streaming logic fetches data from RAID array . This data is placed in DRAM buffer 35 where it is read by real-time pump, col.6, lines 57-59).

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Re claim 27, Dygert et al disclose wherein the media storage and management entity is adapted to convert a live media stream to a non-live media stream that substantially includes the intra coded frames of at least a portion of the live media stream, and duplicating frames (see fig.2; perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; by performing these actions, the live stream is transformed to non-live stream).

Claims 22, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dygert et al in view of Weaver further in view of Zimmermann et al, US No. 20030161302.

Re claim 22, Dygert et al did not explicitly disclose further comprising storing non-live media streams at the video pump, providing a first portion of the non-live media stream from the video pump to the client, and providing a second portion of the non-live media stream from the media server, wherein the generating comprises generating the second portion of the non-live media stream.

However, Zimmermann et al disclose each of the plurality of nodes may be to store segments of the data stream and to transmit the segments of the data stream in a sequence according to a scheduler module on the respective node, 0026.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Zimmermann into the invention of Dygert as modified by Weaver for the purpose allowing the system to receive segments of the same content from different servers.

Re claim 26, is met as previously discussed with respect to claim 22.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Duclos Saintcyr whose phone number is 571-270-

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3224. The examiner can normally reach on M-F 7:30-5:00 PM EST. If attempts to reach the examiner by telephone are not successful, his supervisor, Brian Pendleton, can be reach on 571-272-7527. The fax number for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see httpp://pair-direct.uspto.gov. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, dial 800-786-9199(IN USA OR CANADA) or 571-272-1000.

/Jean Duclos Saintcyr /

/Brian T Pendleton/
Supervisory Patent Examiner, Art Unit 2425